20030809.ba v03_n524.bam.20030809

>From ???@??? Sat Aug 9 12:08:58 2003 -0500
Message-Id: <200308091708.h79H8enc005582@sco.theporch.com>
Date: Sat, 9 Aug 2003 12:07:24 CDT
From: Old Tube Radios <boatanchors@theporch.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: BOATANCHORS digest 3524

BOATANCHORS Digest 3524

Topics covered in this issue include:

1) Re: HQ-105TR
   by "Al Parker" <anchor@ec.rr.com>
2) variable injection bf0
   by "ed" <dgnova@erols.com>
3) Re: variable injection bf0
   by "Garey Barrell" <k4oah@mindspring.com>
4) Varying the pitch, so to speak
   by Michael N Hopkins <mnhopkins@juno.com>
5) Re: [HomeBrew] Replacing "air-dux" type coils with toroids???
   by "James C. Garland" <4cx250b@muohio.edu>
6) Re: HQ-105TR
   by "David L. Thompson" <thompson@mindspring.com>
7) Re: Variable injection BFOs?
   by "David L. Thompson" <thompson@mindspring.com>
8) Re: Varying the pitch, so to speak
   by Al Klase <skywaves@bw.webex.net>
9) Re: Varying the pitch, so to speak
   by "Arden Allen" <gumbear@pacbell.net>
10) Re: [HomeBrew] Replacing "air-dux" type coils with toroids???
   by "Arden Allen" <gumbear@pacbell.net>
11) FS: Drake T-4XC Transmitter
   by Dave Hollander <n7rk@cox.net>
12) Re: Varying the pitch, so to speak
   by Bob Roehrig <broehrig@aurora.edu>
13) FS: Heathkit DX-40 Project
   by Dave Hollander <n7rk@cox.net>
14) RE: FS: CU-1099/FRR and some suggestions.
   by WA5CAB@cs.com
15) Re: Lysco
   by "David L. Thompson" <thompson@mindspring.com>
16) Looking for GR 1230A manual
   by Charles <charlesmorris@direcway.com>
17) Re: Lysco
   by "RJ Mattson" <rjmattson@hvi.net>
18) Re: Lysco

```
     by "RJ Mattson" <rjmattson@hvi.net>
 19) Re: Lysco
     by "Ed Zeranski" <ezeran@concentric.net>
 20) Re: Lysco
     by BobR <brainbol@sunflower.com>
 21) Re: Lysco Modulator
     by "James C. Garland" <4cx250b@muohio.edu>
 22) CBs on 29 - was HQ-105TR
     by "Marty's Refl. Drop" <polepeeg@aa4rm.ba-watch.org>
```

```
Message-ID: <079301c35d21$0cd4ea50$3201a8c0@w8ut>
From: "Al Parker" <anchor@ec.rr.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: HQ-105TR
Date: Thu, 7 Aug 2003 16:18:21 -0400
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit
```

Hi Jim,

There's a .pdf file of the original 4 pg brochure on it, on The Hammarlund Historian website under "H-Files," but it doesn't answer your questions. I thought there might be a manual there, or had one here at home, but isn't either place, or on BAMA. I do have one of the rigs, but haven't gotten into it yet.

If anyone has a digifile of the manual, or will loan me one to scan, I'll get it on the Hammarlund site. Or maybe there are only supplemental pages??

73,
Al, W8UT
New Bern, NC
BoatAnchors appreciated here
http://www.thecompendium.net/radio/
http://www.hammarlund.info

----- Original Message -----
From: "JAMES T HANLON" <knjhanlon@msn.com>
To: "Old Tube Radios" <boatanchors@theporch.com>
Sent: Wednesday, August 06, 2003 11:51 PM
Subject: HQ-105TR

Y'all,

I have a Hammarlund HQ-105TR that has been my "bench receiver" for many years now. I would like to get its transmitter portion running on 10 meters. I have traced the schematic and grid-dipped the coils, and it seems that the crystal oscillator, a triode, runs with its plate tuned to 10 meters and would therefore use a 10 meter, overtone crystal. Does anyone know if that is what Hammarlund intended? Also, can someone tell me what kind of microphone was used originally with this little transceiver? I would appreciate any coaching or directions on how it was originally used and tuned up. I have a manual for an HQ-100, essentially the receiver portion of the HQ-105TR. If someone has a manual for the actual HQ-105TR, I sure would appreciate a copy and I'd be glad to pay for it.

Thanks,

Jim Hanlon, W8KGI

Message-ID: <005401c35d23$d1e9b9e0$c5082c42@p1k5m3>
From: "ed" <dgnova@erols.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: variable injection bf0
Date: Thu, 7 Aug 2003 16:38:11 -0400
MIME-Version: 1.0
Content-Type: text/plain;
    charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

The early Hallicrafters had variable BFO injection. SX-11, I think the SX-16,SX-17 had them .

Message-ID: <00ba01c35d27$007ff780$6401a8c0@hp>
From: "Garey Barrell" <k4oah@mindspring.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: variable injection bf0
Date: Thu, 7 Aug 2003 17:00:58 -0400
MIME-Version: 1.0
Content-Type: text/plain;
    charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I think there is a pattern here.

It seems that "older" receivers, (even by our standards!,) are the ones with variable BFO injection. None of these receivers had AVC on CW, and all had simple diode detectors. Simple detectors work best on CW or SSB when the signal and BFO levels are roughly the same.

Later on, this was effected without variable injection BFOs by turning up the audio gain and using the RF gain to control the level of the signal and "match" it to the fixed BFO level.

Still later, AVC was applied to the IF even on CW, either audio derived or by a separate AVC rectifier.

STILL later, the Product Detector was added, which is far more tolerant of different levels of signal and BFO, and which supported AVC control as well.

?? So what did I miss??

73, Garey - K4OAH
Atlanta

----- Original Message -----
From: "ed" <dgnova@erols.com>

> The early Hallicrafters had variable BFO injection. SX-11, I think
> the SX-16,SX-17 had them .
>

To: Old Tube Radios <boatanchors@theporch.com>
Date: Fri, 8 Aug 2003 08:27:40 -0500
Subject: Varying the pitch, so to speak
Message-ID: <20030808.082741.-153087.7.MNHopkins@juno.com>
MIME-Version: 1.0
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit
From: Michael N Hopkins <mnhopkins@juno.com>

My query on which classic RXs use variable injection BFOs brought The Hallicrafters SX-16 and -17 with, perhaps, the SX-11 and -18 plus RME-4300 and that Arizona Class classic behemoth, the SP-600 -- may it and my lower back rest in peace.

Garey, K4OAH, sent a restatement of the issue so cogent I reproduce it below.

Now, thinking of detection in a black box way with, say, a Plate, a Grid Leak, some diodes or even an Infinite Impedance in the block, did anyone try to control the input in any other way save the IF gain?

> I think there is a pattern here.
>
> It seems that "older" receivers, (even by our standards!,) are the
ones with variable BFO injection. None of these receivers had AVC on

CW, and all had simple diode detectors.   Simple detectors work best on
CW or SSB when the signal and BFO levels are roughly the same.
>
> Later on, this was effected without variable injection BFOs by turning
up the audio gain and using the RF gain to control the level of the
signal and "match" it to the fixed BFO level.
>
> Still later, AVC was applied to the IF even on CW, either audio
derived or by a separate AVC rectifier.
>
> STILL later, the Product Detector was added, which is far more
tolerant of different levels of signal and BFO, and which supported AVC
control as well.

> ??   So what did I miss??
>
> 73, Garey - K4OAH
> Atlanta
>

73 de ab5L, michael, student of of Tecraft, and 6M's Golden Age: 1956-58
MNHopkins@JUNO.com, Box 226841, Dallas, TX 75222

Message-Id: <5.1.0.14.2.20030808101650.03754ea8@admin.muohio.edu>
Date: Fri, 08 Aug 2003 10:23:40 -0400
To: Old Tube Radios <boatanchors@theporch.com>
From: "James C. Garland" <4cx250b@muohio.edu>
Subject: Re: [HomeBrew] Replacing "air-dux" type coils with toroids???
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

>
>All:
>I just received a "jewel in the rough" Lysco 600S transmitter. Looking
>inside the 807 rf cabinet, it looks like the tank coils (particularly the
>plastic) is getting cooked. I don't know if this will stand several more
>years of usage and I have been thinking of replacing the coils with 1)
>replacement NOS B&W/Air Dux stock or 2) finding Amidon or equivalent
>toroids to take their place. My concern is the circulating current/power
>handling capability of the toroids to handle the output and heat of the
>tube. However, I have seen applications of the toroids acting as extra
>impedence in circuits such as lowering a Viking Desk KW to 160 m. How do
>you think this type of conversion will fair with the Lysco at 50 watts
>input? Looking for your comments and thanks. Cal (too many projects) E. N6KYR.

Hi Cal and the gang

I"ve had two Lyscos and both had bad tank coils. The problem is the Airdux miniductor is so close to the 807 that over time the coil's plastic supports turn brittle and crumble. I'd advise replacing it with other coil stock, rather than using toroids. Since one piece of miniductor is adequate for all the bands, there's nothing to be gained by using toroids. Also, there might be space problems, since you'd have to use toroids of about an inch diameter at least.

One one of my Lyscos, a list member kindly sent me exact replacement stock (which is why I know it was Airdux and not B&W). However, any miniductor that has enough inductance would work fine, though you'll have to tweak the tap positions if it's not an exact replacement. If you move the coil a bit farther from the 807, you shouldn't have coil degradation. If you don't do this, you might have to replace the coil again in about 50 years.

73,

Jim Garland W8ZR

Message-ID: <002d01c35dbd$e4fe9ec0$e08756d1@default>
From: "David L. Thompson" <thompson@mindspring.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: HQ-105TR
Date: Fri, 8 Aug 2003 11:01:05 -0400

Jim,

Hammarlund intended this to be a CB transmitter. I see no reason why it could not be moved to 10 meters. However the 29Mcs AM frequency is a stretch for most CB conversions without some circuit changes. The manual should give details on the mic.
Dave K4JRB

Y'all,

I have a Hammarlund HQ-105TR that has been my "bench receiver" for many years now. I would like to get its transmitter portion running on 10 meters. I have traced the schematic and grid-dipped the coils, and it seems that the crystal oscillator, a triode, runs with its plate tuned to 10 meters and would therefore use a 10 meter, overtone crystal. Does anyone know if that is what Hammarlund intended? Also, can someone tell me what kind of microphone was used originally with this little transceiver? I would appreciate any coaching or directions on how it was originally used and tuned up. I have a manual for an HQ-100, essentially the receiver portion of the HQ-105TR. If someone has a manual for the actual HQ-105TR, I sure would appreciate a copy and I'd be glad to pay for it.

Thanks,

Jim Hanlon, W8KGI

Message-ID: <003901c35dbe$48736f80$e08756d1@default>
From: "David L. Thompson" <thompson@mindspring.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Variable injection BFOs?
Date: Fri, 8 Aug 2003 11:03:52 -0400

Even the portable S-72 had variable injection BFO. However in this set you cut the injection some as the receiver tends to squeal.

Dave K4JRB

Message-ID: <3F33BC09.5080508@bw.webex.net>
Date: Fri, 08 Aug 2003 11:04:41 -0400
From: Al Klase <skywaves@bw.webex.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
CC: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Varying the pitch, so to speak
Content-Type: text/plain; charset=us-ascii; format=flowed
Content-Transfer-Encoding: 7bit

Michael N Hopkins wrote:
> My query on which classic RXs use variable injection BFOs brought The
> Hallicrafters SX-16 and -17 with, perhaps, the SX-11 and -18 plus
> RME-4300 and that Arizona Class classic behemoth, the SP-600 --

I fear we might be confusing "BFO Frequency" with "BFO Injection Amplitude." I can't see from the schematics that any of the above Hallicrafters sets have variable BFO injection level.

Someone might check on the RME-4300.

The SP-600 has a separate 6BA6 as a variable-gain buffer to provide the injection to the detector. There's a pot on the rear panel that controls the gain of this stage. The goal is keeping the BFO at a low enough level not to mess up the AVC, and having oscillator isolated from the detector so it won't lock up on stronger signals.

Later, more sophisticated radios, like the R-390, split the

IF path, and drive the AVC detector with a separate IF amp
to keep it isolated from the BFO.

73,
Al

--
Al Klase - N3FRQ
skywaves@bw.webex.net
Flemington, NJ 08822
Web Page: http://www.webex.net/~skywaves/home.htm

Message-ID: <001901c35dc6$db828e20$87e47443@KB6NAX>
From: "Arden Allen" <gumbear@pacbell.net>
To: Old Tube Radios <boatanchors@theporch.com>
Cc: "Old Tube Radios" <boatanchors@theporch.com>
Subject: Re: Varying the pitch, so to speak
Date: Fri, 8 Aug 2003 09:05:10 -0700
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Michael sez:

> ......The SP-600 has a separate 6BA6 as a variable-gain buffer to
provide the injection to the detector. There's a pot on the
rear panel that controls the gain of this stage. The goal
is keeping the BFO at a low enough level not to mess up the
AVC, and having oscillator isolated from the detector so it
won't lock up on stronger signals. ...

Well, not really (see schematic again).

The whole proposition of BFO injection level as it pertains to CW and SSB reception revolves around proper amplitude relationship between carrier and sidebands for undistorted demodulation. For CW reception you only have to consider the mixing of two "carriers," making their amplitude relationships moot. As long as the beat note (difference frequency between the two carriers) emerges from the detector undistorted by either detector nonlinearity or overdriving of the detector the BFO injection level may be greater or less than the signal level. Adjustability of BFO level allows one to tweak for best quality detection.

SSB is more problematic with a receiver designed just for CW reception. If the "carrier" amplitude, (BFO level) is insufficent with respect to the sideband amplitude, the efffect is the same as an overmodulated AM transmitter - too much sideband and not enough carrier. Therefore the BFO level must be increased in amplitude with respect to the received SSB signal to get undistorted detection. The whole purpose of the product detector is to provide and maintain the proper level of carrier reinsertion for undistorted detection. Remember, modulation and demodulation is the same process, simply freqency conversion from base band to carrier and back again.

Arden Allen
KB6NAX
Vallejo, CA 94590
gumbear@pacbell.net

Message-ID: <002501c35dc6$f70d2f10$87e47443@KB6NAX>
From: "Arden Allen" <gumbear@pacbell.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: [HomeBrew] Replacing "air-dux" type coils with toroids???
Date: Fri, 8 Aug 2003 09:05:58 -0700
MIME-Version: 1.0
Content-Type: text/plain;
     charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

Air state v/s solid state cores....

Replacing air core coils in vacuum tube power circuits with toroidal core inductors is an iffy proposition at best. Toroids, because of their ferromagnetic cores, will saturate unless power transfer is maintained by good impedance matching, something that is highly variable in a vacuum tube output tank. With even slight amounts of core saturation harmonics are generated, something the tank is supposed to suppress, not generate. Managing the interwinding capacitances, because of the close spacing of turns on the core, becomes a difficult proposition in high impedance RF circuits. Also, if a core gets "cooked" from an occasional impedance mismatching event, the core material's permeability may be permanently changed causing the coil to become junk.

Arden Allen
KB6NAX
Vallejo, CA 94590
gumbear@pacbell.net

Message-ID: <3F33D204.452EF645@cox.net>
Date: Fri, 08 Aug 2003 09:38:30 -0700

From: Dave Hollander <n7rk@cox.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: FS: Drake T-4XC Transmitter
Content-Type: text/plain; charset=us-ascii; x-mac-type="54455854"; x-mac-creator="4D4F5353"
Content-Transfer-Encoding: 7bit

A real clean Drake T-4XC transmitter.......$240 plus shipping

This unit has been checked out and works well putting out 90-110 watts on each band. It has the crystal for 30 meter operation installed. The unit is very clean both inside and out with a few minor scuffs to the case. Includes the original manual. The AC-4 power supply has already been sold.

Photos:
http://members.cox.net/radiostuff9/draket4xc.jpg
http://members.cox.net/radiostuff9/draket4xc2.jpg
http://members.cox.net/radiostuff9/draket4xc3.jpg
http://members.cox.net/radiostuff9/draket4xcman.jpg

You can check my user ID "n7rk" on Eb*y
for a reference as to dealing with me.

Thanks for looking and 73,

Dave N7RK

****
Dave N7RK   http://members.cox.net/n7rk
Phoenix, Arizona   *DXCC Honor Roll*   *WAZ#23 - 75 Meter SSB*

ex-XE2/N7RK, N7RK/ZB2, VK2ERK, ZM0AJN, WB6NRK, WN6IWX

Boatanchor and Antique Radio Collector Extraordinaire preferring
Hallicrafters, National and what ever else looks interesting!

Date: Fri, 8 Aug 2003 12:16:53 -0500 (CDT)
From: Bob Roehrig <broehrig@aurora.edu>
To: Old Tube Radios <boatanchors@theporch.com>
cc: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Varying the pitch, so to speak
Message-ID: <Pine.OSF.4.55.0308081215470.475945@mail.aurora.edu>
MIME-Version: 1.0

Content-Type: TEXT/PLAIN; charset=US-ASCII

On Fri, 8 Aug 2003, Arden Allen wrote:

> Michael sez:
>
> > ......The SP-600 has a separate 6BA6 as a variable-gain buffer to
> provide the injection to the detector.

Here is a case of a modification just waiting to be made! Ya remove that
stage and substitute a 6BE6 product detector.

Bob Roehrig
Aurora University Telecom/IS dept.
broehrig@aurora.edu   73 de K9EUI
630-844-4898   fax 630-844-4222

Message-ID: <3F33DDA8.D6EF4593@cox.net>
Date: Fri, 08 Aug 2003 10:28:10 -0700
From: Dave Hollander <n7rk@cox.net>
MIME-Version: 1.0
To: Old Tube Radios <boatanchors@theporch.com>
Subject: FS: Heathkit DX-40 Project
Content-Type: text/plain; charset=iso-8859-1
Content-Transfer-Encoding: 8bit

Heathkit DX-40ÖÖÖ$75 plus shipping
Good front panel, case needs repainting, has the crystal door. Wiring is
clean inside and all of the tubes are good. Correct
knobs on the front. The transmitter appears to have a blown power transformer
but includes a non-Heathkit replacement which is rated 600 volts CT at
200 mA. Includes a photocopy of the manual. Although not shown in thre
photos, I have added the correct gray knob to the crystal switch on the
back.

http://members.cox.net/radiostuff9/heathdx401.JPG
http://members.cox.net/radiostuff9/heathdx402.JPG
http://members.cox.net/radiostuff9/heathdx403.JPG
http://members.cox.net/radiostuff9/dx40.jpg
http://members.cox.net/radiostuff9/heathdx405.JPG
http://members.cox.net/radiostuff9/heathdx406.JPG

You can check my user ID "n7rk" on Eb*y
for a reference as to dealing with me.

Thanks for looking and 73,

Dave N7RK
****
Dave N7RK   http://members.cox.net/n7rk
Phoenix, Arizona   *DXCC Honor Roll*   *WAZ#23 - 75 Meter SSB*

ex-XE2/N7RK, N7RK/ZB2, VK2ERK, ZM0AJN, WB6NRK, WN6IWX

Boatanchor and Antique Radio Collector Extraordinaire preferring
Hallicrafters, National and what ever else looks interesting!

From: WA5CAB@cs.com
Message-ID: <15a.22b04c30.2c654ccf@cs.com>
Date: Fri, 8 Aug 2003 14:58:23 EDT
Subject: RE: FS: CU-1099/FRR and some suggestions.
To: Old Tube Radios <boatanchors@theporch.com>
MIME-Version: 1.0
Content-Type: multipart/alternative;
boundary="part1_15a.22b04c30.2c654ccf_boundary"

--part1_15a.22b04c30.2c654ccf_boundary
Content-Type: text/plain; charset="US-ASCII"
Content-Transfer-Encoding: 7bit

Groups,

I seem to have one unit remaining of those without the bandpass filter. I thought night before last that someone had asked for each of them, so if any of you sent me an email asking for one of them and haven't heard from me, ping me again. There was a flurry of emails about the time I really should have quit and gone to bed and I may have read one in my web mail and failed to save it to the local drive.

Another list member (familiar with them from the days when they were front line gear) had a couple of suggestions that will apply to the four I had plus any that some of you may already have. From the factory, the input AC went to the 115VAC tap on the power transformer. Apparently in their original service, the units were often at the far end of a long power supply cord. He recommended moving this lead to the 125VAC tap. And there are two electrolytic capacitors that he suggested it would be good insurance to replace with new stock. I'll be happy to forward the details to anyone interested.

73
Robert Downs - Houston
<http://www.wa5cab.com>
<wa5cab@cs.com>

--part1_15a.22b04c30.2c654ccf_boundary
Content-Type: text/plain; charset=us-ascii
Content-Transfer-Encoding: 7bit

```
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
*         ---REMAINDER OF MESSAGE TRUNCATED---            *
*     This post contains a forbidden message format       *
*  (such as an attached file, a v-card, HTML formatting)  *
*    Mail Lists at theporch.com only accept PLAIN TEXT    *
* If your postings display this message your mail program *
* is not set to send PLAIN TEXT ONLY and needs adjusting  *
* * * * * * * * * * * * * * * * * * * * * * * * * * * * * *
```

--part1_15a.22b04c30.2c654ccf_boundary--

Message-ID: <007c01c35df3$e00eac80$528b56d1@default>
From: "David L. Thompson" <thompson@mindspring.com>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Lysco
Date: Fri, 8 Aug 2003 17:27:29 -0400

Lysco made three models of the Transmaster. The 500, the 600, and the 600S. The 600 is exactly the same as the 500 with some TVI proofing. The S model has the clamp tube modulation option which came in 1951. Most suggest using a small modulator with the Lysco such as the Eico or WRL UM-1.

CQ carried a review in the August 1950 CQ starting on page 20. The review includes the schematic.

Dave K4JRB

Date: Fri, 08 Aug 2003 18:56:04 -0500
From: Charles <charlesmorris@direcway.com>
Subject: Looking for GR 1230A manual
To: Old Tube Radios <boatanchors@theporch.com>
Message-id: <d2e8jvomqi2h4vkqc8m1emushh93i1oi8u@4ax.com>
MIME-version: 1.0
Content-type: text/plain; charset=us-ascii
Content-transfer-encoding: 7BIT

I have acquired a nonworking General Radio 1230A DC
Amplifier/Electrometer (tube-type, of course ;) and need a manual,
or at least a schematic.
thanks
Charles

Message-ID: <004601c35e15$e3c3f3e0$cf6ddbd0@Laptop>
From: "RJ Mattson" <rjmattson@hvi.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Lysco
Date: Fri, 8 Aug 2003 21:30:59 -0400
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I have a Lysco Modulator Model 403 #46
Line up is:
6au6 speech amp.
12au7 driver/phase inverter
6L6 pp PA
Never used it. Anyone using a 403 to offer an opinion?
Bob...w2ami
http://www.qrz.com/callsign/W2AMI

----- Original Message -----
From: "David L. Thompson" <thompson@mindspring.com>
To: "Old Tube Radios" <boatanchors@theporch.com>
Sent: Friday, August 08, 2003 5:27 PM
Subject: Re: Lysco

> Lysco made three models of the Transmaster. The 500, the 600, and the
600S.
> The 600 is exactly the same as the 500 with some TVI proofing. The S
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> has the clamp tube modulation option which came in 1951. Most suggest
using
> a small modulator with the Lysco such as the Eico or WRL UM-1.
>
> CQ carried a review in the August 1950 CQ starting on page 20. The review
> includes the schematic.
>
> Dave K4JRB
>

Message-ID: <004e01c35e17$783da330$cf6ddbd0@Laptop>
From: "RJ Mattson" <rjmattson@hvi.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Lysco

Date: Fri, 8 Aug 2003 21:42:17 -0400
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

My Lysco Transmaster doesn't seem to have a model# on the front - just
"Lysco Transmaster". Looked on the rear - nothing.
Any ideas what I have or where the number should be?
bob...w2ami

----- Original Message -----
From: "David L. Thompson" <thompson@mindspring.com>
To: "Old Tube Radios" <boatanchors@theporch.com>
Sent: Friday, August 08, 2003 5:27 PM
Subject: Re: Lysco

> Lysco made three models of the Transmaster. The 500, the 600, and the
600S.
> The 600 is exactly the same as the 500 with some TVI proofing. The S
model
> has the clamp tube modulation option which came in 1951. Most suggest
using
> a small modulator with the Lysco such as the Eico or WRL UM-1.
>
> CQ carried a review in the August 1950 CQ starting on page 20. The review
> includes the schematic.
>
> Dave K4JRB
>

Message-ID: <003301c35e20$f9a88080$1a88dd40@ejzlt>
From: "Ed Zeranski" <ezeran@concentric.net>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: Re: Lysco
Date: Fri, 8 Aug 2003 19:50:19 -0700
MIME-Version: 1.0
Content-Type: text/plain;
charset="iso-8859-1"
Content-Transfer-Encoding: 7bit

I'm surprised at the length of the Lysco thread on BA! About 6-8 years ago I
Xerox copied the 1950 review, now nailed as Aug CQ 1950, then sent hard copy
to interested BA folks. I still have the Model 50 antenna tuner for the
rigs. If I scan the article, only two pages or so, does someone want to
post it to a webpage? When I dig the issue from the heap~8^0 I can also send

it as as an email attachment.

EdZ

Message-Id: <5.2.0.9.2.20030808232529.00a8b0d8@brainbol.pop.sunflower.com>
Date: Fri, 08 Aug 2003 23:28:21 -0500
To: Old Tube Radios <boatanchors@theporch.com>
From: BobR <brainbol@sunflower.com>
Subject: Re: Lysco
Mime-Version: 1.0
Content-Type: text/plain; charset="iso-8859-1"; format=flowed
Content-Transfer-Encoding: quoted-printable

This Lysco thread reminded me that I picked up a
small model 892 VFO at a hamfest last year. Have not
opened it up to see innards yet, dial says it
covers 80 thru 10. What does it mate up with?

Bob/WB=D8AUQ

Message-Id: <5.1.0.14.2.20030809080829.033bc6f0@admin.muohio.edu>
Date: Sat, 09 Aug 2003 08:22:46 -0400
To: Old Tube Radios <boatanchors@theporch.com>
From: "James C. Garland" <4cx250b@muohio.edu>
Subject: Re: Lysco Modulator
Mime-Version: 1.0
Content-Type: text/plain; charset="us-ascii"; format=flowed

At 09:30 PM 8/8/2003, you wrote:
>I have a Lysco Modulator Model 403 #46
>Line up is:
>6au6 speech amp.
>12au7 driver/phase inverter
>6L6 pp PA
>Never used it. Anyone using a 403 to offer an opinion?
>Bob...w2ami

HI Bob and the Gang,
I fired up my Lysco the other day and checked out the clamp tube modulator.
I used an old EV-727 microphone, which was the only one I could find that
had the proper single-pin connector.. I didn't make any contacts but
listened to myself on a receiver. Frankly, I wasn't impressed. The audio
seemed tinny and weak. The tinniness may have been a mismatch with the 727
mic, or possibly a bad mic element. The audio seemed weaker and less
punchy than that of the old Heathkit clamp-tube transmitters (the DX-60?).

.I fiddled with the modulator's gain control, and found that a medium setting seemed to work best. I watched my Bird wattmeter and found that the best setting was when the no-audio carrier was roughly half (about 10 Watts) that of the CW carrier. Of course, on voice peaks the output power jumped up, as expected..

The Lysco's CW note had a slight chirp, which my other one did also. I wondered if the VFO voltage regulator was falling out of regulation, but I don't think so. I suspect that's a generic problem. I tried increasing the power supply filteri capacitor, but it didn't help.

Let me caution people about one thing. When the key is open, the exposed metal can on the chassis-mounted electrolytic rides up to the full B+. I discovered this the hard way.
73,
Jim W8ZR

Date: Sat, 9 Aug 2003 13:04:22 -0400 (EDT)
From: "Marty's Refl. Drop" <polepeeg@aa4rm.ba-watch.org>
Message-Id: <200308091704.NAA02924@aa4rm.ba-watch.org>
To: Old Tube Radios <boatanchors@theporch.com>
Subject: CBs on 29 - was HQ-105TR

> taking a CB to 29 a stretch...

Common 70s 10m FM CB conversion was change out mixer xtal in HyGain board & add limiter-discriminator daughter board/chip.

And move some annoying wires & splice in a varicap diode to reactance-modulate VCO in PLL.

Worked like a ring in a bell

Ask Johnny B Good or the man who drives one... 29.16-45 simplex fm. Or add a hundred for repeater split. Long-forgotten ideas.

BTW, if anyone wonders why the %$#@ I shud know this, it was the answer to a post here for a compact, portable set to work a wfm SCR508 or 298.

Tnx to bob@atl.org, personal communication/loan.

End of BOATANCHORS Digest 3524
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